

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 03797.00180	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/19919	International filing date (day/month/year) 25/06/2001	(Earliest) Priority Date (day/month/year) 26/06/2000
Applicant MICROSOFT CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

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International application No.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A system and method for rendering ink annotations (1302, 1303) for a displayed image (1301) is disclosed. The invention renders annotations (1302, 1303) to mimic how physical ink would appear if similarly applied to physical paper. In one embodiment, the invention uses subtractive rendering to produce combinations of colors. Here, the system subtracts a complement of a color from an existing color to produce the rendered color. The rendered color is the color that is common to the annotation color and the existing color. This operation may be simplified as a binary ADD of the numeric representation of the two constituent colors. Using this invention, the resulting color shown at a given pixel P shows the history of all color layers at the pixel P, rather than merely the last applied color.

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International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F3/033 G06F3/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 920 694 A (SCHWARTZ KRISTA S ET AL) 6 July 1999 (1999-07-06) column 13, line 11 -column 14, line 25; figures 19-22	1-6, 9-16, 19-21
X	--- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000 (2000-02-29) & JP 11 327789 A (RICOH CO LTD), 30 November 1999 (1999-11-30) abstract	1-6, 11-16,21
X	--- US 5 986 665 A (SUMNER MATTHEW ET AL) 16 November 1999 (1999-11-16) column 1, line 43 - line 65 column 4, line 25 - line 45 -----	1,2,5, 11,12, 15,21,23

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

5 October 2001

Date of mailing of the international search report

12/10/2001

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Durand, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/19919

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5920694	A	06-07-1999	US 5649104 A	15-07-1997
			EP 0645726 A2	29-03-1995
			JP 7182282 A	21-07-1995
			EP 0616448 A2	21-09-1994
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			US 5704042 A	30-12-1997
			US 5872923 A	16-02-1999
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			US 5819038 A	06-10-1998
			US 5838914 A	17-11-1998
			US 5920693 A	06-07-1999
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JP 11327789	A	30-11-1999	NONE	
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US 5986665	A	16-11-1999	GB 2317090 A , B	11-03-1998
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